## NON-WOVEN SHAPED FIBER MEDIA LOADED WITH EXPANDED POLYMER MICROSPHERES

## ABSTRACT OF THE DISCLOSURE

5

[037] An insulating composite material comprising expanded microcells and fiber media and methods for producing same. Microcells incorporated into the fiber media engage the surface projections and the intra-fiber and inter-fiber voids, resulting in increased microcell retention, thereby improving the characteristics of the composite material.